

May 26, 1958

REPORT ON RESEARCH PROJECTS
for the
FISCAL YEAR 1957-58

- I. Name Lederberg, J. Dept. Genetics Proj. No. 57:250
Title of project Genetics of Bacteria
- II. Personnel: Constance Thomas Project asst.
Y. Hirota Research asst.
T. Iino "
Ann Cook "
- III. Statement of other financial support, if any, for this project and related projects
NIH 12,000 Rockefeller 7,000
NSF 7,000
- IV. Brief statement of specific progress made during the year:
1. Genetic analysis of phase variation in *Salmonella* has been completed and is being prepared for publication.
2. Acidine Orange specifically induces the loss of the F factor in *E. coli*, i.e., it converts males into females.
3. Penicillin - induces protoplasts of *E. coli* retain the capacity to mate. Lysis by water interrupts the mating of a ϕ protoplast X ψ rod, and results in partial fertilization.
4. No further progress on the transfer of genetic information by DNA in *E. coli*.
5. (Fulbright trip to Australia.) Single lymph node cells from doubly immunized animals produce only one or the other variety of antibody.
- V. Publications that have appeared in print from July 1, 1957 to June 30, 1958:
See attached sheet: Items checked. (64,62,62,70,71,72,74,75)
- VI. Manuscripts accepted for publication but not yet printed:
~~Bacterial~~ Reproduction. Harvey Lecture (Dec. 19, 1957)

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